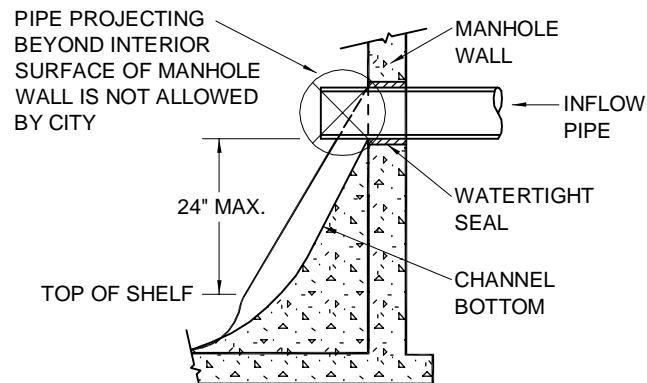
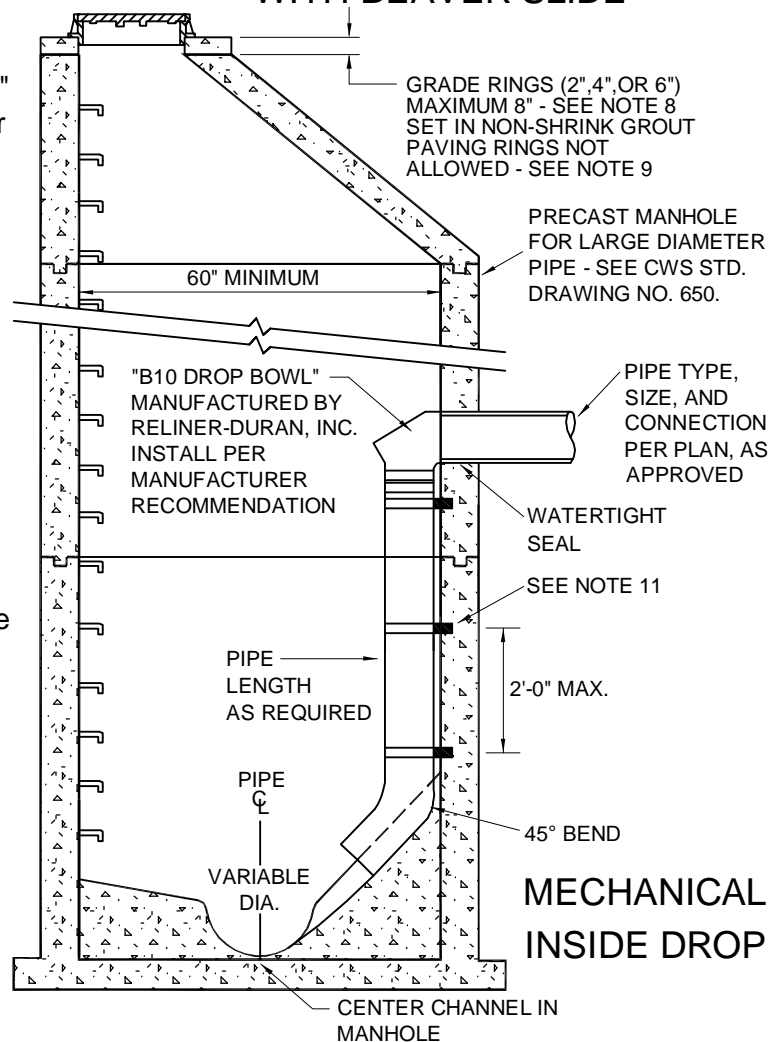


NOTES:

1. All precast manhole riser sections shall conform to the requirements of ASTM C-478 and applicable provisions of *Beaverton Standard Dwg 304*.
2. A single "open" (unenclosed) inside drop with a "BEAVER SLIDE" may be allowed with prior written approval of the City Engineer.
3. The City does not allow outside drops, "open" (unenclosed) inside drops over 2 feet high, or partitioned inside drops.
4. Pipe and fittings for drop assembly shall be same size as inflow pipe to manhole.
5. Pipe and fittings for drop assembly shall be: ductile iron ANSI A21.50-1, AWWA C150-1, AWWA C-900 or PVC ASTM 3034 SDR 35.
6. Pipe connections of four or more mainlines shall require a manhole connection and channel detail.
7. Provide a minimum of 8-inches of intact (undisturbed) manhole wall between pipe breakouts as measured on the inside face of the manhole.
8. No more than 8-inches of grade rings shall be used.
9. Paving rings are not allowed without the City Engineer's written approval.
10. Minimum fall between inlet and outlet to be not less than 0.10 feet.
11. See *Clean Water Services Standard Dwg 080* for clamp detail.
12. The City reserves the right to deviate from this drawing and related requirements in the *Engineering Design Manual* as dictated by project design parameters, and as approved by the City Engineer.



OPEN INSIDE DROP WITH BEAVER SLIDE



SANITARY SEWER INSIDE DROP

REPLACES CWS (USA) STANDARD DETAILS NO. 070 AND 080
BY BEAVERTON ORDINANCE #4303



City Of Beaverton

ENGINEERING DEPARTMENT

CITY ENGINEER
Terry Waldele, P.E.

DATE
11 - 15 - 04

SANITARY SEWER INSIDE DROP MANHOLE

DRAWN BY
JCH - CPD

DRAWING NO.
306

ATTENTION! THIS DRAWING REPLACES DRAWING NO. 306, DATED 6-10-04